

AMENDMENTS TO THE CLAIMS:

1. (Previously presented) An image display system comprising:
 - a light source for providing a beam of light along an illumination path;
 - a sequential color filter on said illumination path for filtering said beam of light;
 - a polarizing beam splitter on said illumination path for receiving said filtered beam of light at a first face, separating said filtered light beam into a first beam having a first polarization state and a second beam having a second polarization state;
 - a first spatial light modulator proximate a second face of said polarizing beam splitter receiving and selectively modulating said first beam;
 - a second spatial light modulator proximate a third face of said polarizing beam splitter receiving and selectively modulating said second beam;
 - a total internal reflection prism assembly proximate said first face and on said illumination path and a projection path to separate the illumination and projection paths; and
 - at least one projection lens on said projection path for focusing said first and second beams on an image plane.
2. (Previously presented) The image display system of Claim 1, said polarizing beam splitter combining said modulated first and second light beams.
3. (Previously presented) The image display system of Claim 1, said sequential color filter comprising a color wheel.
4. (Previously presented) The image display system of Claim 1, said sequential color filter comprising a spiral color wheel.

5. (Previously presented) The image display system of Claim 1, said total internal reflection prism assembly comprising:
 - at least one prism in said illumination and said projection paths for separating said filtered illumination light beam and said modulated light beam.
6. (Previously presented) The image display system of Claim 1, said total internal reflection prism assembly comprising:
 - a first prism in said illumination and said projection paths for separating said first beam directed to said first modulator and said modulated first beam from said first modulator; and
 - a second prism in said illumination and said projection paths for separating said second beam directed to said second modulator and said modulated second beam from said second modulator.
7. (Previously presented) The image display system of Claim 1, modulated light from said first modulator passing through a first projection lens and light from said second modulator passing through a second projection lens.
8. (Previously presented) The image display system of Claim 1, wherein said first and second modulators are positioned such that pixelated images from said first and second modulators are offset by approximately one-half pixel in a horizontal direction at said image plane.
9. (Previously presented) The image display system of Claim 1, wherein said first and second modulators are positioned such that pixelated images from said first and second modulators are offset by approximately one-half pixel in a vertical direction at said image

plane.

10. (Previously presented) The image display system of Claim 1, wherein said first and second modulators are positioned such that pixelated images from said first and second modulators are offset by approximately one-half pixel in both a horizontal and a vertical direction at said image plane.
11. (Previously presented) The image display system of Claim 1, said first modulator comprising a micromirror device.
12. (Previously presented) The image display system of Claim 1, said first modulator comprising a liquid crystal device.
13. (Previously presented) The image display system of Claim 1 comprising:
 - a recycling integrator on said illumination path for homogenizing said light beam prior to said sequential color filter.
14. (Previously presented) The image display system of Claim 13, wherein said recycling integrator is a solid integrating rod having a mirrored input aperture.
15. (Previously presented) The image display system of Claim 13, wherein said recycling integrator is a hollow integrating rod having a mirrored input aperture.
16. (Previously presented) The image display system of Claim 1, comprising polarized eyewear for a viewer of said image display system.
17. (Previously presented) A method of producing an image, said method comprising:
 - providing a beam of light along an illumination path;
 - sequentially color filtering said beam of light;
 - splitting said filtered light beam into a first beam having a first polarization state

and a second beam having a second polarization state;

modulating said first beam using a first spatial light modulator;

modulating said second beam using a second spatial light modulator;

separating said filtered light beam from said modulated first and second beams using a total internal reflection prism assembly; and

focusing said first and second modulated light beams on an image plane.

18. (Previously presented) The method of Claim 17, comprising:

combining said modulated first and second light beams.
19. (Original) The method of Claim 17, said sequentially color filtering comprising sequentially filtering said beam of light using a color wheel.
20. (Original) The method of Claim 17, said sequentially color filtering comprising sequentially filtering said beam of light using a spiral color wheel.
21. (Canceled)
22. (Canceled)
23. (Original) The method of Claim 17, said focusing said first and second modulated light beams on an image plane comprising:

focusing said first modulated light beam on said image plane using a first lens;

and

focusing said second modulated light beam on said image plane using a second lens.
24. (Original) The method of Claim 17, said first and second modulators forming pixelated images on said image plane; comprising:

positioning said first and second modulators such that said pixelated images are offset by approximately one-half pixel at said image plane.

25. (Original) The method of Claim 17, said first and second modulators forming pixelated images on said image plane; comprising:

positioning said first and second modulators such that said pixelated images are offset by approximately one-half pixel in a horizontal direction at said image plane.

26. (Original) The method of Claim 17, said first and second modulators forming pixelated images on said image plane; comprising:

positioning said first and second modulators such that said pixelated images are offset by approximately one-half pixel in a vertical direction at said image plane.

27. (Original) The method of Claim 17, said first and second modulators forming pixelated images on said image plane; comprising:

positioning said first and second modulators such that said pixelated images are offset by approximately one-half pixel in both a horizontal and a vertical direction at said image plane.

28. (Original) The method of Claim 17, said modulating said first beam comprising:

modulating said first beam using a micromirror device.

29. (Original) The method of Claim 17, said modulating said first beam comprising:

modulating said first beam using a liquid crystal device.

30. (Original) The method of Claim 17, comprising:

homogenizing said light beam using a recycling integrator prior to sequentially color filtering said beam of light.

31. (Original) The method of Claim 30, said homogenizing said light beam using a recycling integrator comprising:

homogenizing said light beam using a solid integrating rod having a mirrored input aperture.

32. (Original) The method of Claim 30, said homogenizing said light beam using a recycling integrator comprising:

homogenizing said light beam using a hollow integrating rod having a mirrored input aperture.

33. (New) An image display system comprising:

a light source for providing a beam of light along an illumination path;

a recycling integrator having a mirrored input aperture on said illumination path for homogenizing said light beam;

a sequential color filter on said illumination path for filtering said homogenized beam of light;

a polarizing beam splitter on said illumination path for receiving said filtered beam of light at a first face, separating said filtered light beam into a first beam having a first polarization state and a second beam having a second polarization state;

a first spatial light modulator proximate a second face of said polarizing beam splitter receiving and selectively modulating said first beam;

a second spatial light modulator proximate a third face of said polarizing beam splitter receiving and selectively modulating said second beam;

a total internal reflection prism assembly proximate said first face and on said illumination path and a projection path to separate the illumination and projection paths; and

at least one projection lens on said projection path for focusing said first and second beams on an image plane.

34. (New) A method of producing an image, said method comprising:

providing a beam of light along an illumination path;

homogenizing said light beam using a recycling integrator having a mirrored input aperture;

sequentially color filtering said homogenized beam of light;

splitting said filtered light beam into a first beam having a first polarization state and a second beam having a second polarization state;

modulating said first beam using a first spatial light modulator;

modulating said second beam using a second spatial light modulator;

separating said filtered light beam from said modulated first and second beams using a total internal reflection prism assembly; and

focusing said first and second modulated light beams on an image plane.